

Susan E Trolier-Mckinstry

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

454
papers

14,848
citations

60
h-index

106
g-index

509
ext. papers

16,510
ext. citations

3.8
avg. IF

6.63
L-index

#	Paper	IF	Citations
454	Cold sintering of the ceramic potassium sodium niobate, (K _{0.5} Na _{0.5})NbO ₃ , and influences on piezoelectric properties. <i>Journal of the European Ceramic Society</i> , 2022 , 42, 105-111	6	0
453	Exploring leakage in dielectric films via automated experiments in scanning probe microscopy. <i>Applied Physics Letters</i> , 2022 , 120, 182903	3.4	1
452	Challenges in double-beam laser interferometry measurements of fully released piezoelectric films. <i>Journal of Applied Physics</i> , 2022 , 131, 214102	2.5	1
451	Comparison of K _{0.5} Na _{0.5} NbO ₃ and PbZr _{0.52} Ti _{0.48} O ₃ compliant-mechanism-design energy harvesters. <i>Journal of Applied Physics</i> , 2021 , 129, 114101	2.5	1
450	Thermal Conductivity of Aluminum Scandium Nitride for 5G Mobile Applications and Beyond. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 19031-19041	9.5	15
449	The influence of Mn doping on the leakage current mechanisms and resistance degradation behavior in lead zirconate titanate films. <i>Acta Materialia</i> , 2021 , 208, 116680	8.4	10
448	Ferroelectricity in boron-substituted aluminum nitride thin films. <i>Physical Review Materials</i> , 2021 , 5,	3.2	14
447	Mechanical failure dependence on the electrical history of lead zirconate titanate thin films. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 2465-2471	6	2
446	Leakage current characteristics and DC resistance degradation mechanisms in Nb doped PZT films. <i>Journal of Applied Physics</i> , 2021 , 129, 174102	2.5	1
445	Antiferroelectrics: History, fundamentals, crystal chemistry, crystal structures, size effects, and applications. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 3775-3810	3.8	11
444	Thermally stimulated depolarization current measurements on degraded lead zirconate titanate films. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 5270-5280	3.8	5
443	Activation energies for crystallization of manganese-doped (K,Na)NbO ₃ thin films deposited from a chemical solution. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 4968-4976	3.8	
442	Comparison of different sintering aids in cold sinter-assisted densification of lead zirconate titanate. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 5479-5488	3.8	1
441	Residual stress analysis of aluminum nitride piezoelectric micromachined ultrasonic transducers using Raman spectroscopy. <i>Journal of Applied Physics</i> , 2021 , 130, 044501	2.5	1
440	Residual Stress and Ferroelastic Domain Reorientation in Declamped {001} Pb(ZrTi)O Films. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021 , 68, 259-272	3.2	3
439	Flexoelectric barium strontium titanate (BST) hydrophones. <i>Journal of Applied Physics</i> , 2021 , 129, 064504	4.5	3
438	Flexible Thin-Film PZT Ultrasonic Transducers on Polyimide Substrates. <i>Sensors</i> , 2021 , 21,	3.8	3

437	Ferroelectrics everywhere: Ferroelectricity in magnesium substituted zinc oxide thin films. <i>Journal of Applied Physics</i> , 2021 , 130, 044101	2.5	11
436	Strongly temperature dependent ferroelectric switching in AlN, Al _{1-x} Sc _x N, and Al _{1-x} B _x N thin films. <i>Applied Physics Letters</i> , 2021 , 119, 062901	3.4	17
435	Cold Sintering of PZT 2-2 Composites for High Frequency Ultrasound Transducer Arrays. <i>Actuators</i> , 2021 , 10, 235	2.4	0
434	Influence of graded doping on the long-term reliability of Nb-doped lead zirconate titanate films. <i>Acta Materialia</i> , 2021 , 219, 117251	8.4	4
433	Ferroelectric Switching in Sub-20 nm Aluminum Scandium Nitride Thin Films. <i>IEEE Electron Device Letters</i> , 2020 , 41, 1774-1777	4.4	23
432	Fabrication of bimorph lead zirconate titanate thick films on metal substrates via the cold sintering-assisted process. <i>Acta Materialia</i> , 2020 , 195, 482-490	8.4	1
431	Thickness Dependence of crack initiation and propagation in stacks for piezoelectric microelectromechanical systems. <i>Acta Materialia</i> , 2020 , 191, 245-252	8.4	8
430	Oxygen octahedral tilt ordering in (Na _{1/2} Bi _{1/2})TiO ₃ ferroelectric thin films. <i>Applied Physics Letters</i> , 2020 , 116, 022902	3.4	0
429	Comparative Solution Synthesis of Mn Doped (Na,K)NbO Thin Films. <i>Chemistry - A European Journal</i> , 2020 , 26, 9356-9364	4.8	4
428	Model for the cold sintering of lead zirconate titanate ceramic composites. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 4894-4902	3.8	5
427	Local measurements of domain wall-induced self-heating in released PbZr _{0.52} Ti _{0.48} O ₃ films. <i>Journal of Applied Physics</i> , 2020 , 128, 214102	2.5	2
426	Multi-Channel Signal-Generator ASIC for Acoustic Holograms. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020 , 67, 49-56	3.2	2
425	A Photoacoustic Imaging Device Using Piezoelectric Micromachined Ultrasound Transducers (PMUTs). <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020 , 67, 801-809	3.2	18
424	Piezoelectric nanoelectromechanical systems integrating microcontact printed lead zirconate titanate films. <i>Journal of Micromechanics and Microengineering</i> , 2020 , 30, 035004	2	4
423	Extrinsic contributions to the dielectric and pyroelectric properties of Pb _{0.99} [(Zr _{0.52} Ti _{0.48}) _{0.98} Nb _{0.02}]O ₃ thin films on Si and Ni substrates. <i>Journal of Applied Physics</i> , 2020 , 128, 114102	2.5	4
422	Electrochemically driven degradation of chemical solution deposited ferroelectric thin-films in humid ambient. <i>Journal of Applied Physics</i> , 2020 , 127, 244101	2.5	3
421	Non-linearity in engineered lead magnesium niobate (PbMg _{1/3} Nb _{2/3} O ₃) thin films. <i>Journal of Applied Physics</i> , 2020 , 128, 194102	2.5	0
420	10 MHz Thin-Film PZT-Based Flexible PMUT Array: Finite Element Design and Characterization. <i>Sensors</i> , 2020 , 20,	3.8	3

419	Electric field induced metallic behavior in thin crystals of ferroelectric Hn_2Se_3 . <i>Applied Physics Letters</i> , 2020 , 117, 052901	3.4	8
418	A Multi-Beam Shared-Inductor Reconfigurable Voltage/SECE Mode Piezoelectric Energy Harvesting Interface Circuit. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2019 , 13, 1277-1287	5.1	5
417	Dynamical Magnetic Field Accompanying the Motion of Ferroelectric Domain Walls. <i>Physical Review Letters</i> , 2019 , 123, 127601	7.4	15
416	The existence and impact of persistent ferroelectric domains in MAPbI ₃ . <i>Science Advances</i> , 2019 , 5, eaas93113	9.1	54
415	2019 ,		11
414	The effect of imprint on remanent piezoelectric properties and ferroelectric aging of PbZr _{0.52} Ti _{0.48} O ₃ thin films. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 5328-5341	3.8	18
413	Influence of PbO content on the dielectric failure of Nb-doped {100}-oriented lead zirconate titanate films. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 1734-1740	3.8	9
412	Improvement of reliability and dielectric breakdown strength of Nb-doped lead zirconate titanate films via microstructure control of seed. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 1211-1217	3.8	11
411	Thin Film PZT-Based PMUT Arrays for Deterministic Particle Manipulation. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2019 , 66, 1606-1615	3.2	6
410	Effect of stresses on the dielectric and piezoelectric properties of Pb(Zr _{0.52} Ti _{0.48})O ₃ thin films. <i>Journal of Applied Physics</i> , 2019 , 126, 034101	2.5	14
409	Additive Manufacturing of Ferroelectric-Oxide Thin-Film Multilayer Devices. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45155-45160	9.5	8
408	Modelling of the vertical deflection of ferroelectric bending tongues loaded at their free end. <i>AIP Advances</i> , 2019 , 9, 025017	1.5	3
407	Optimizing the energy balance to achieve autonomous self-powering for vigilant health and IoT applications. <i>Journal of Physics: Conference Series</i> , 2019 , 1407, 012001	0.3	4
406	Polarity dependent DC resistance degradation and electrical breakdown in Nb doped PZT films. <i>APL Materials</i> , 2019 , 7, 120901	5.7	10
405	Experiments on a wireless power transfer system for wearable device with sol-gel thin-film PZT. <i>Journal of Physics: Conference Series</i> , 2019 , 1407, 012063	0.3	1
404	Relaxor Behavior in Ordered Lead Magnesium Niobate (PbMg _{1/3} Nb _{2/3} O ₃) Thin Films. <i>Advanced Functional Materials</i> , 2019 , 29, 1804258	15.6	9
403	Effect of piezoelectric layer thickness and poling conditions on the performance of cantilever piezoelectric energy harvesters on Ni foils. <i>Sensors and Actuators A: Physical</i> , 2018 , 273, 90-97	3.9	27
402	Bismuth niobate thin films for dielectric energy storage applications. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 3443-3451	3.8	14

401	Annealing behavior and electrical properties of atomic layer deposited PbTiO ₃ and PZT films. <i>Journal of Crystal Growth</i> , 2018 , 493, 45-50	1.6	2
400	Thickness dependent response of domain wall motion in declassified {001} Pb(Zr _{0.1} Ti _{0.7})O ₃ thin films. <i>Acta Materialia</i> , 2018 , 151, 243-252	8.4	14
399	Ultraviolet-assisted cold poling of Pb(Zr _{0.52} Ti _{0.48})O ₃ films. <i>Journal of Materials Science</i> , 2018 , 53, 7180-7186	1.86	2
398	Cold sintering and electrical characterization of lead zirconate titanate piezoelectric ceramics. <i>APL Materials</i> , 2018 , 6, 016101	5.7	36
397	Design of piezoMEMS for high strain rate nanomechanical experiments. <i>Extreme Mechanics Letters</i> , 2018 , 20, 14-20	3.9	10
396	Cobalt doping to influence the electrical conductivity of (Bi _{0.91} Dy _{0.09})FeO ₃ ceramics. <i>Materials Letters</i> , 2018 , 225, 126-129	3.3	2
395	Pulsed-Laser Deposited 35 Bi(Mg _{1/2} Ti _{1/2})O ₃ -65 PbTiO ₃ Thin Films-Part I: Influence of Processing on Composition, Microstructure, and Ferroelectric Hysteresis. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018 , 65, 1525-1533	3.2	1
394	Integrated electronics for control of large-area piezoelectric arrays for adjustable optics. <i>Sensors and Actuators A: Physical</i> , 2018 , 276, 304-311	3.9	3
393	High-Performance Piezoelectric Crystals, Ceramics, and Films. <i>Annual Review of Materials Research</i> , 2018 , 48, 191-217	12.8	76
392	Materials and approaches for on-body energy harvesting. <i>MRS Bulletin</i> , 2018 , 43, 206-213	3.2	22
391	Voltage-Controlled Bistable Thermal Conductivity in Suspended Ferroelectric Thin-Film Membranes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 25493-25501	9.5	20
390	Wearable inertial energy harvester with sputtered bimorph lead zirconate titanate (PZT) thin-film beams. <i>Smart Materials and Structures</i> , 2018 , 27, 085026	3.4	24
389	Strongly (001) Oriented Bimorph PZT Film on Metal Foils Grown by rf-Sputtering for Wrist-Worn Piezoelectric Energy Harvesters. <i>Advanced Functional Materials</i> , 2018 , 28, 1801327	15.6	46
388	Pulsed-Laser Deposited 35 Bi(Mg _{1/2} Ti _{1/2})O ₃ -65 PbTiO ₃ Thin Films-Part II: Influence of A-Site Deficiency and Thickness Scaling on Electric Properties. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018 , 65, 1534-1541	3.2	
387	Theory-Guided Synthesis of a Metastable Lead-Free Piezoelectric Polymorph. <i>Advanced Materials</i> , 2018 , 30, e1800559	24	4
386	Design and fabrication of prototype piezoelectric adjustable X-ray mirrors. <i>Optics Express</i> , 2018 , 26, 27757-27772	3.3	12
385	Progress in development of adjustable optics for x-ray astronomy 2018 ,		4
384	Piezoelectric MEMS Energy Harvesters for Powering Sensor Systems. <i>Proceedings (mdpi)</i> , 2018 , 2, 1103	0.3	1

383	Evaluation of High Frequency Piezoelectric Micromachined Ultrasound Transducers for Photoacoustic Imaging. <i>Proceedings of IEEE Sensors</i> , 2018 , 2018,	0	6
382	Sputtered Lead Zirconate Titanate Thin Films Deposited on Silicon-on-Sapphire Substrates 2018 ,		1
381	Flexible Thin-Film PZT Ultrasonic Transducers 2018 ,		2
380	Piezoelectric Energy Generation 2018 , 33-59		1
379	Decoupled Piezoelectric Coefficients in Patterned 70/30 Lead Magnesium Niobate/Lead Titanate Thin Films. <i>Advanced Functional Materials</i> , 2017 , 27, 1605014	15.6	13
378	High-temperature thermoelectric characterization of filled strontium barium niobates: power factors and carrier concentrations. <i>Journal of Materials Research</i> , 2017 , 32, 1160-1167	2.5	6
377	Enhanced dielectric and piezoelectric responses in Zn _{1-x} Mg _x O thin films near the phase separation boundary. <i>Applied Physics Letters</i> , 2017 , 110, 042903	3.4	6
376	Thickness-dependent domain wall reorientation in 70/30 lead magnesium niobate- lead titanate thin films. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 3961-3972	3.8	11
375	The role of ceramic and glass science research in meeting societal challenges: Report from an NSF-sponsored workshop. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 1777-1803	3.8	17
374	Development of crystallographic texture in chemical solution deposited lead zirconate titanate seed layers. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 4476-4482	3.8	10
373	Movers, shakers, and storers of charge: The legacy of ferroelectricians L. Eric Cross and Robert E. Newnham. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 3346-3359	3.8	12
372	High-temperature crystallized thin-film PZT on thin polyimide substrates. <i>Journal of Applied Physics</i> , 2017 , 122, 164103	2.5	15
371	A flexible, high-performance magnetoelectric heterostructure of (001) oriented Pb(Zr _{0.52} Ti _{0.48})O ₃ film grown on Ni foil. <i>APL Materials</i> , 2017 , 5, 096111	5.7	18
370	Physically based DC lifetime model for lead zirconate titanate films. <i>Applied Physics Letters</i> , 2017 , 111, 122903	3.4	7
369	Fabrication and characterization of mechanical resonators integrating microcontact printed PZT films 2017 ,		1
368	Effect of lead content on the performance of niobium-doped {100} textured lead zirconate titanate films. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 3558-3567	3.8	16
367	Additively patterned ferroelectric thin films with vertical sidewalls. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 848-858	3.8	
366	Filled oxygen-deficient strontium barium niobates. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 774-782	3.8	6

365	Highly accelerated lifetime testing of potassium sodium niobate thin films. <i>Applied Physics Letters</i> , 2017 , 111, 212903	3.4	10
364	A wrist-worn rotational energy harvester utilizing magnetically plucked {001} oriented bimorph PZT thin-film beams 2017 ,		12
363	Lynx Mission concept status 2017 ,		20
362	Portable High-Frequency Ultrasound Imaging System Design and Hardware Considerations 2017 , 217-252		
361	Portable High-Frequency Ultrasound Imaging System Design and Hardware Considerations 2017 , 337-364		
360	Design and fabrication of adjustable x-ray optics using piezoelectric thin films 2017 ,		3
359	Deterministic figure correction of piezoelectrically adjustable slumped glass optics 2017 ,		4
358	Piezoelectric compliant mechanism energy harvesters under large base excitations. <i>Smart Materials and Structures</i> , 2016 , 25, 095023	3.4	1
357	Scaling Effects in Perovskite Ferroelectrics: Fundamental Limits and Process-Structure-Property Relations. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2537-2557	3.8	108
356	Toward large-area sub-arcsecond x-ray telescopes II 2016 ,		8
355	Microstructure Evolution of In Situ Pulsed-Laser Crystallized Pb(Zr _{0.52} Ti _{0.48})O ₃ Thin Films. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 43-50	3.8	14
354	Coherent Growth of Fe_2O_3 in Ti and Nd Co-doped BiFeO ₃ Thin Films. <i>Materials Research Letters</i> , 2016 , 4, 168-173	7.4	1
353	Effect of Mechanical Constraint on Domain Reorientation in Predominantly {111}-Textured Lead Zirconate Titanate Films. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 1802-1807	3.8	5
352	Efficient Energy Harvesting Using Piezoelectric Compliant Mechanisms: Theory and Experiment. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2016 , 138,	1.6	27
351	Fast Magnetic Domain-Wall Motion in a Ring-Shaped Nanowire Driven by a Voltage. <i>Nano Letters</i> , 2016 , 16, 2341-8	11.5	45
350	Ultraviolet pulsed laser crystallization of Ba _{0.8} Sr _{0.2} TiO ₃ films on LaNiO ₃ -coated silicon substrates. <i>Ceramics International</i> , 2016 , 42, 4039-4047	5.1	17
349	Laboratory demonstration of the piezoelectric figure correction of a cylindrical slumped glass optic 2016 ,		2
348	The Effects of Low Oxygen Activity Conditions on the Phase Equilibria and Cation Occupancy of Strontium Barium Niobate. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 3435-3442	3.8	11

347	Relaxor Ferroelectric Behavior in Barium Strontium Titanate. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 1645-1650	3.8	26
346	Management of Lead Content for Growth of {001}-Oriented Lead Magnesium Niobate-Lead Titanate Thin Films. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 1144-1146	3.8	8
345	Efficient Piezoelectric Energy Harvesters Utilizing (001) Textured Bimorph PZT Films on Flexible Metal Foils. <i>Advanced Functional Materials</i> , 2016 , 26, 5940-5946	15.6	90
344	Visualization of dielectric constant-electric field-temperature phase maps for imprinted relaxor ferroelectric thin films. <i>Applied Physics Letters</i> , 2016 , 108, 132902	3.4	5
343	Progress towards a multi-modal capsule endoscopy device featuring microultrasound imaging 2016		8
342	Excimer laser assisted re-oxidation of BaTiO ₃ thin films on Ni metal foils. <i>Journal of Applied Physics</i> , 2016 , 119, 024106	2.5	3
341	Unleashing Strain Induced Ferroelectricity in Complex Oxide Thin Films via Precise Stoichiometry Control. <i>Advanced Functional Materials</i> , 2016 , 26, 7271-7279	15.6	27
340	In situ X-ray diffraction of lead zirconate titanate piezoMEMS cantilever during actuation. <i>Materials and Design</i> , 2016 , 111, 429-434	8.1	4
339	The effect of substrate clamping on the paraelectric to antiferroelectric phase transition in Nd-doped BiFeO ₃ thin films. <i>Thin Solid Films</i> , 2016 , 616, 767-772	2.2	5
338	Room-temperature voltage tunable phonon thermal conductivity via reconfigurable interfaces in ferroelectric thin films. <i>Nano Letters</i> , 2015 , 15, 1791-5	11.5	78
337	Phase transitions and octahedral rotations in epitaxial Ag(TaxNb _{1-x})O ₃ thin films under tensile strain. <i>Journal of Applied Physics</i> , 2015 , 117, 085309	2.5	1
336	Piezoelectric micromachined ultrasound transducer (PMUT) arrays for integrated sensing, actuation and imaging. <i>Sensors</i> , 2015 , 15, 8020-41	3.8	163
335	Pathway to the piezoelectronic transduction logic device. <i>Nano Letters</i> , 2015 , 15, 2391-5	11.5	22
334	Domain pinning near a single-grain boundary in tetragonal and rhombohedral lead zirconate titanate films. <i>Physical Review B</i> , 2015 , 91,	3.3	25
333	Domain Wall Motion Across Various Grain Boundaries in Ferroelectric Thin Films. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 1848-1857	3.8	29
332	Sub-kT/q Switching in Strong Inversion in PbZr _{0.52} Ti _{0.48} O ₃ Gated Negative Capacitance FETs. <i>IEEE Journal on Exploratory Solid-State Computational Devices and Circuits</i> , 2015 , 1, 43-48	2.4	77
331	Effect of feature size on dielectric nonlinearity of patterned PbZr _{0.52} Ti _{0.48} O ₃ films. <i>Journal of Applied Physics</i> , 2015 , 117, 014103	2.5	10
330	In situ measurement of increased ferroelectric/ferroelastic domain wall motion in declamped tetragonal lead zirconate titanate thin films. <i>Journal of Applied Physics</i> , 2015 , 117, 054103	2.5	34

329	Nanocrystalline Ferroelectric BiFeO ₃ Thin Films by Low-Temperature Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2015 , 27, 6322-6328	9.6	20
328	Piezoelectric and dielectric properties of Pb(Zr,Ti)O ₃ ferroelectric bilayers. <i>Physical Review B</i> , 2015 , 91,	3.3	5
327	Nanocomposite bismuth zinc niobate tantalate for flexible energy storage applications. <i>Journal of Applied Physics</i> , 2015 , 118, 234102	2.5	8
326	Quantitative and high spatial resolution d ₃₃ measurement of piezoelectric bulk and thin films. <i>Journal of Applied Physics</i> , 2015 , 118, 174104	2.5	13
325	Stabilisation of Fe ₂ O ₃ -rich Perovskite Nanophase in Epitaxial Rare-earth Doped BiFeO ₃ Films. <i>Scientific Reports</i> , 2015 , 5, 13066	4.9	7
324	Bismuth pyrochlore thin films for dielectric energy storage. <i>Journal of Applied Physics</i> , 2015 , 118, 054102	2.5	32
323	Metallic-like to nonmetallic transitions in a variety of heavily oxygen deficient ferroelectrics. <i>Applied Physics Letters</i> , 2015 , 107, 092902	3.4	6
322	Cubic Pyrochlore Bismuth Zinc Niobate Thin Films for High-Temperature Dielectric Energy Storage. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 1223-1229	3.8	37
321	MnO ₂ Thin Film Electrodes for Enhanced Reliability of Thin Glass Capacitors. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 3270-3279	3.8	10
320	Enhanced flexoelectricity through residual ferroelectricity in barium strontium titanate. <i>Journal of Applied Physics</i> , 2015 , 117, 094102	2.5	48
319	A-site stoichiometry and piezoelectric response in thin film PbZr _{1-x} Ti _x O ₃ . <i>Journal of Applied Physics</i> , 2015 , 117, 204104	2.5	12
318	Flexible Technologies for Self-Powered Wearable Health and Environmental Sensing. <i>Proceedings of the IEEE</i> , 2015 , 103, 665-681	14.3	124
317	Improved control and characterization of adjustable x-ray optics 2015 ,		2
316	Control of crystallographic texture and surface morphology of Pt/TiO ₂ templates for enhanced PZT thin film texture. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015 , 62, 56-61	3.2	11
315	Ferroelectric/Ferroelastic domain wall motion in dense and porous tetragonal lead zirconate titanate films. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2015 , 62, 46-55	3.2	21
314	Efficient and Sensitive Energy Harvesting Using Piezoelectric MEMS Compliant Mechanisms 2015 ,		2
313	Piezoelectrics: Influence of a Single Grain Boundary on Domain Wall Motion in Ferroelectrics (Adv. Funct. Mater. 10/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 1408-1408	15.6	3
312	Influence of Li doping on domain wall motion in Pb(Zr _{0.52} Ti _{0.48})O ₃ films. <i>Journal of Materials Science</i> , 2014 , 49, 7883-7889	4.3	2

311	Polarization-based perturbations to thermopower and electronic conductivity in highly conductive tungsten bronze structured (Sr,Ba)Nb ₂ O ₆ : Relaxors vs normal ferroelectrics. <i>Physical Review B</i> , 2014 , 90,	3.3	27
310	Fabrication of adjustable cylindrical mirror segments for the SMART-X telescope. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2014 , 61, 1386-1392	3.2	6
309	Upshift of phase transition temperature in nanostructured PbTiO ₃ thick film for high temperature applications. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 11980-7	9.5	32
308	Residual ferroelectricity in barium strontium titanate thin film tunable dielectrics. <i>Journal of Applied Physics</i> , 2014 , 116, 044104	2.5	38
307	Influence of a Single Grain Boundary on Domain Wall Motion in Ferroelectrics. <i>Advanced Functional Materials</i> , 2014 , 24, 1409-1417	15.6	57
306	Amorphous-nanocrystalline lead titanate thin films for dielectric energy storage. <i>Journal of the Ceramic Society of Japan</i> , 2014 , 122, 250-255	1	13
305	Development status of adjustable grazing incidence optics for 0.5 arcsecond x-ray imaging 2014 ,		4
304	Investigation of Local A-site Chemistry in Barium Strontium Titanate Using Aberration Corrected STEM, EELS and EDS. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1992-1993	0.5	
303	The PiezoElectronic Switch: A Path to High Speed, Low Energy Electronics. <i>Advances in Science and Technology</i> , 2014 , 90, 93-102	0.1	
302	Pyroelectric and dielectric properties of ferroelectric films with interposed dielectric buffer layers. <i>Applied Physics Letters</i> , 2014 , 105, 232905	3.4	9
301	The field induced e _{31,f} piezoelectric and Rayleigh response in barium strontium titanate thin films. <i>Applied Physics Letters</i> , 2014 , 105, 132905	3.4	11
300	Next-generation electrocaloric and pyroelectric materials for solid-state electrothermal energy interconversion. <i>MRS Bulletin</i> , 2014 , 39, 1099-1111	3.2	135
299	{001} Oriented piezoelectric films prepared by chemical solution deposition on Ni foils. <i>Journal of Applied Physics</i> , 2014 , 116, 014105	2.5	47
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131	(Reactive) Templated Grain Growth of Textured Sodium Bismuth Titanate (Na _{1/2} Bi _{1/2} TiO ₃ -BaTiO ₃) Ceramics Dielectric and Piezoelectric Properties 2003 , 11, 217-226		125
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12	Processing of PZT piezoelectric thin films for microelectromechanical systems		6
11	Processing and properties of high aspect ratio ferroelectric structures		2
10	RF MEMS piezoelectric switch		5
9	MEMS flexensional actuator using lead zirconate titanate thin film		2
8	Dielectric properties of capacitor materials in the optical frequency range		1
7	Piezoelectric films for MEMS applications		15
6	Single domain/single crystal ferroelectric PbTiO ₃ thin films		1

5	Electrical properties and phase transformations in antiferroelectric lead zirconate thin films	2
4	Size effects in barium titanate thin film heterostructures with conductive oxide electrodes	2
3	Templated grain growth of textured Sr/sub 2/Nb/sub 2/O/sub 7/	14
2	Characterization of PZT hollow-sphere transducers	6
1	Wake-Up in Al _{1-x} B _x N Ferroelectric Films. <i>Advanced Electronic Materials</i> ,2100931	6.4 2